

RECEIVED BY

SEP 15 1983

O. C. D.

ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-24-83	
Company Belco Development Corp.				Connection To Air		
Pool Los Medanos - Adoka				Formation Morrow		Unit
Completion Date 8/20/83		Total Depth 14,640		Plug Back TD 14,597		Elevation 3320 KB
Cas. Size 5"	Wt. 17.93	d 4.276	Set At 14,640	Perforations: From 14,139 To 14,202		Well No. 14
Thq. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 14,020	Perforations: From --- To ---		Unit Sec. Two BC 7 230
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 14,042	
Producing Thru Tubing		Reservoir Temp. °F 213° 13,900		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2
L 13,900	H 13,900	Cg .581	% CO ₂ 1.568	% N ₂ .278	% H ₂ S	Prover N.M. Meter Run 3"
FLOW DATA TUBING DATA CASING DATA						
NO.	Prover Line Size	x	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI						
1.	3	x	1.750	490	8	80°
2.	3	x	1.750	490	15	74
3.	3	x	1.750	490	19	75
4.	3	x	1.750	490	32	75
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv
1	15.61	63.45	503.2	.9813	1.312	1.037
2	15.61	86.88	503.2	.9868	1.312	1.037
3	15.61	97.78	503.2	.9859	1.312	1.037
4	15.61	126.89	503.2	.9859	1.312	1.037
5						
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio Dry	
1	.75	540	1.54	.932	A.P.I. Gravity of Liquid Hydrocarbons -0-	
2	.75	536	1.53	.930	Specific Gravity Separator Gas .581	
3	.75	535	1.53	.930	Specific Gravity Flowing Fluid X X X X X	
4	.75	535	1.53	.930	Critical Pressure 672 P.S.I.A.	
5					Critical Temperature 350 R	
$P_c = 4963.2$ $P_c^2 = 24633.4$						
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.260$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1$	
1		3946.8	15577.2	9056.2	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.284$	
2		3419.1	11690.2	12943.2		
3		3129.3	9792.5	14840.9		
4		2255.8	5088.6	19544.8		
5						
Absolute Open Flow 3,284				Mold @ 15.025		Angle of Slope @ 47.5
Slope, n.						
Remarks: Bottom Hole pressures measured with Kuster gauge. Calculated from known bottom hole pressures.						
Approved By Commission:		Conducted By: W.S.		Calculated By: R.R.		Checked By: R.R.